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Phosphorus In Land-Water Systems

The presence and effects of phosphorus in land-water systems have been investigated. Analyses were made to obtain information on the distribution of the different forms of phosphate in different environmental media, including soils, eroding material, and bottom sediment. Major emphasis was placed upon the determination of the several forms of inorganic phosphate in each media. Procedures were developed for the application of the ascorbic acid-molybdenum blue method to the determination of phosphate in the various extracting solutions used in the fractionation of the forms of phosphate. Results show that eroding material can transport significant quantities of phosphate from soils and further suggest that the forms of phosphate differ in different environmental media. Using a radiophosphorus technique, it was found that considerable translocation of phosphate occurred during extraction in calcareous media.

The information contained in this report should be of interest to ecologists, government pollution

control departments, and researchers active in the area of water pollution abatement and control.

Note:

Requests for further information may be directed to:

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